

Risk management for scuba diving activities

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1. Introduction
2. Risk assessment procedures
 - 2.1. Risk and hazard
 - 2.2. Reliability vs. failure
 - 2.3. Accident vs. Incident
 - 2.4. Qualitative hazard analysis
 - 2.5. Mixed qualitative & quantitative analysis
 - 2.6. Composite risk index
 - 2.7. Human and Organizational Factors (HOF) in Reliability
3. Risk assessment in diving operations
 - 3.1. Attitude in diving incidents and accidents
 - 3.2. The chain of events
 - 3.3. Human errors in diving incidents
 - 3.4. Stress and panic in underwater incidents
 - 3.5. SCUBA equipment risk assessment
4. Scuba diving incidents analysis
5. Risk management in diving operations
 - 5.1. Team management
 - 5.2. Breathing gas management
 - 5.3. Equipment configuration
 - 5.4. Environmental conditions
 - 5.5. Special tasks management
6. Outlining a diving plan
 - 6.1. Diving team and support team
 - 6.2. Diving objectives, diving limits and diving schedule
 - 6.3. Communication protocols
 - 6.4. Diving and scientific equipment selection

6.4. Contingency and emergency plan

6.5. Checklists

6.6. Briefing and debriefing